

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01911

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/37 G 33/573

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

MEDLINE, BIOSIS, EPO-Internal, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>FERNANDO PASAN ET AL: "Caspase 3 activity is required for skeletal muscle differentiation"</p> <p>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 99, no. 17, 20 August 2002 (2002-08-20), pages 11025-11030, XP002278719</p> <p>August 20, 2002</p> <p>ISSN: 0027-8424</p> <p>p.11025, section "Materials and Methods", paragraph "myoblast culture"; p.11028, left-hand column, second paragraph; p. 11030, last 8 lines.</p> <p>---</p> <p>-/-</p>	1-22

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

30 April 2004

Date of mailing of the international search report

09/06/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓	<p>WU Z ET AL: "p38 and extracellular signal-regulated kinases regulate the myogenic program at multiple steps" MOLECULAR AND CELLULAR BIOLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, US, vol. 20, no. 11, June 2000 (2000-06), pages 3951-3964, XP002251467 ISSN: 0270-7306 p. 3953, section "Inhibition of p38 activity prevents myotube formation". ---</p>	1-22
X ✓	<p>ZERMATI YAEL ET AL: "Caspase activation is required for terminal erythroid differentiation" JOURNAL OF EXPERIMENTAL MEDICINE, vol. 193, no. 2, 15 January 2001 (2001-01-15), pages 247-254, XP002278721 ISSN: 0022-1007 p.249, left-hand column, second paragraph to p. 250, right-hand column, l. 14; p. 253, last paragraph. abstract</p>	1-22
P,X ✓	<p>MOGI MAKIO ET AL: "Activation of caspases is required for osteoblastic differentiation." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 278, no. 48, 28 November 2003 (2003-11-28), pages 47477-47482, XP002278720 ISSN: 0021-9258 p.47478, section "results", firts two paragraphs; p. 47477, "Experimental procedures", paragraph "Material"; p. 47481, right-hand column, last paragraph. ---</p>	1-22
P,X	<p>ALTURA R A ET AL: "Nuclear expression of Survivin in paediatric ependymomas and choroid plexus tumours correlates with morphologic tumour grade." BRITISH JOURNAL OF CANCER. ENGLAND 3 NOV 2003, vol. 89, no. 9, 3 November 2003 (2003-11-03), pages 1743-1749, XP002278722 ISSN: 0007-0920 abstract</p>	1-22
P,X	<p>WO 03/093487 A (HARVEY RICHARD HANS ;VICTOR CHANG CARDIAC RES INST (AU); YEOH THOM) 13 November 2003 (2003-11-13) the whole document --- -/-</p>	1-22

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 981 708 A (LAWMAN PATRICIA D ET AL) 9 November 1999 (1999-11-09) the whole document ----	1-22
A	US 5 750 376 A (REYNOLDS BRENT ET AL) 12 May 1998 (1998-05-12) the whole document ----	1-22
A	SOMMER LUKAS ET AL: "Neural stem cells and regulation of cell number" PROGRESS IN NEUROBIOLOGY (OXFORD), vol. 66, no. 1, January 2002 (2002-01), pages 1-18, XP002278723 ISSN: 0301-0082 the whole document -----	1-22

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 4-9, 12-18 and 21 are directed to a method for modulating caspase-3 activity to modulate differentiation of stem cells thus modulating the fate of the said stem cells which can be used for therapeutic purpose (method of treatment of the human/animal body) the search has been carried out and based on the alleged effects of the compounds.

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
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Patent document cited in search report	Publication date	Patent member	Publication date
WO 03093487	A 13-11-2003	WO 03093487 A1	13-11-2003
US 5981708	A 09-11-1999	US 5650299 A AU 691529 B2 AU 7929994 A CA 2173592 A1 EP 0724632 A1 JP 9506245 T JP 3253966 B2 JP 2002155100 A WO 9509912 A1 ZA 9407825 A	22-07-1997 21-05-1998 01-05-1995 13-04-1995 07-08-1996 24-06-1997 04-02-2002 28-05-2002 13-04-1995 22-08-1995
US 5750376	A 12-05-1998	US 2003082515 A1 US 2003109008 A1 US 2003095956 A1 US 6071889 A US 5981165 A US 6399369 B1 US 6294346 B1 US 5980885 A US 6497872 B1 US 5851832 A US 2003049837 A1 AT 230795 T AU 697894 B2 AU 8056194 A CA 2175992 A1 WO 9513364 A1 CN 1141058 A DE 69431993 D1 DE 69431993 T2 DK 728194 T3 EP 0728194 A1 ES 2189807 T3 FI 961855 A JP 9507747 T NO 961859 A AT 208495 T AU 714837 B2 AU 3515295 A CA 2200709 A1 WO 9609543 A1 DE 69523771 D1 DE 69523771 T2 DK 783693 T3 EP 1130394 A1 EP 0783693 A1 ES 2167461 T3 FI 971168 A JP 10505754 T NO 971245 A PT 783693 T AU 716811 B2 AU 3836795 A CA 2204630 A1 WO 9615226 A1 CN 1170435 A	01-05-2003 12-06-2003 22-05-2003 06-06-2000 09-11-1999 04-06-2002 25-09-2001 09-11-1999 24-12-2002 22-12-1998 13-03-2003 15-01-2003 22-10-1998 29-05-1995 18-05-1995 18-05-1995 22-01-1997 13-02-2003 27-11-2003 22-04-2003 28-08-1996 16-07-2003 04-06-1996 12-08-1997 03-07-1996 15-11-2001 13-01-2000 09-04-1996 28-03-1996 28-03-1996 13-12-2001 01-08-2002 14-01-2002 05-09-2001 16-07-1997 16-05-2002 20-03-1997 09-06-1998 18-03-1997 29-04-2002 09-03-2000 06-06-1996 23-05-1996 23-05-1996 14-01-1998

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5750376	A	EP 0792350 A1 FI 971956 A JP 10509592 T NO 972171 A	03-09-1997 04-07-1997 22-09-1998 07-07-1997

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